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***UNITED STATES AGENCY FOR INTERNATIONAL DEVELOPMENT
Enterprise Energy Efficiency (3E)***

***IQC Contract # EPP-I-00-03-00004-00
Task Order # 12***

***USAID 3E Presentation at the CTR SAIS John Hopkins in Washington
Authors: Project Team
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USAID Enterprise Energy Efficiency (3E) Project in Bosnia and Herzegovina

**Mak Kamenica
Deputy Chief of Party**

December 9, 2013



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Situation in BiH

GDP in BiH = 18 bn. USD

**National energy bill
(19% of GDP) = 3.4 bn. USD**

**20% energy efficiency
increase = 680 million USD
(3.8% of GDP)**

6.1% of GDP in the US

4.75% of GDP in the EU



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Situation in BiH

- BiH signed the EU Energy Community treaty in 2006 committed to the following:
 - to implement the relevant EU regulations
 - to develop an adequate regulatory framework
 - to liberalize the energy markets in line with the Treaty requirements



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European Union 20-20-20 targets by 2020

- A 20% reduction in greenhouse gas emissions
- Raising the share of energy produced from renewable resources to 20%
- A 20% improvement in energy efficiency

EE directives:

- EE in buildings (57% of energy consumption in BiH is in buildings)
- EE products (Energy Labelling and Minimum Efficiency Requirements)
- Cogeneration (Combined Heat and Power)
- End-use Efficiency & Energy Services



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EU Recommendations for 2013 – Adoption in 2014

Reconstruction of buildings

- By June 2016 long term strategy for investments

Public sector as a role model

- As of June 2015 reconstruction of 2% of public buildings per year, 3% from 2020

Obligations for energy distributors

- As of January 2015 a 1% annual reduction in consumption by customers of energy

Metering

- By June 2018 individual energy metering



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USAID 3E task objectives

- **Implementation of 10 pilot projects throughout Bosnia and Herzegovina (BiH)**
- **Increase public and private sector capacity to implement EE projects**
- **Raise public awareness of EE potential**



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Memorandum of Understanding for EE

- Initiated by USAID 3E
- Signed in 2010 and 2012
- First such document in the SEE region



giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

On behalf of

BMZ



Federal Ministry
for Economic Cooperation
and Development



“Purpose of Memorandum

The purpose of this Memorandum of Understanding (MOU) is to promote cooperation between GIZ, UNDP, USAID and the EU DEL / EUSR BiH in the field of energy efficiency. The overall aim is to support Bosnia and Herzegovina in its accession process to the European Union.”



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USAID 3E pilot projects

17 EE pilot projects implemented in BiH

Total investments:

- **\$950,000** USAID 3E
- **\$1,900,000** International partners
- **\$1,750,000** Local partners
- **\$4,600,000** Total investments

RATIO

\$1 U.S. Gov : \$3.85 Partners



USAID 3E pilot projects



MEF building *before* and *after* implementation of EE measures



New/old heating substation



USAID 3E pilot projects



Zonal heating scheme



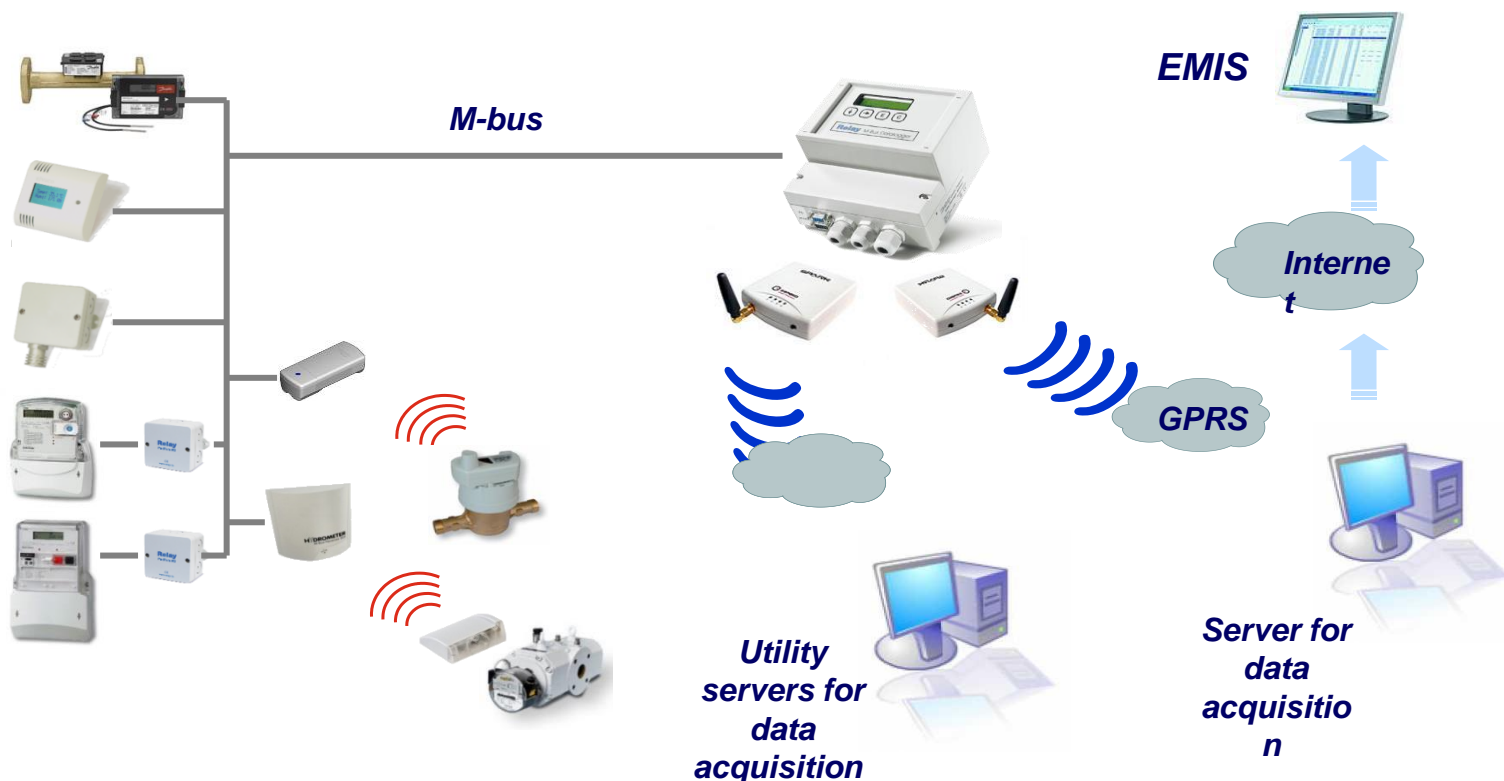
***Before and after implementation of
EE measures***



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USAID 3E pilot projects – Monitoring & Verification System





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Capacity Building Courses on Energy Management in Buildings and Green Office Practices

- **5** Cities around the country
- More than **270** attendees overall



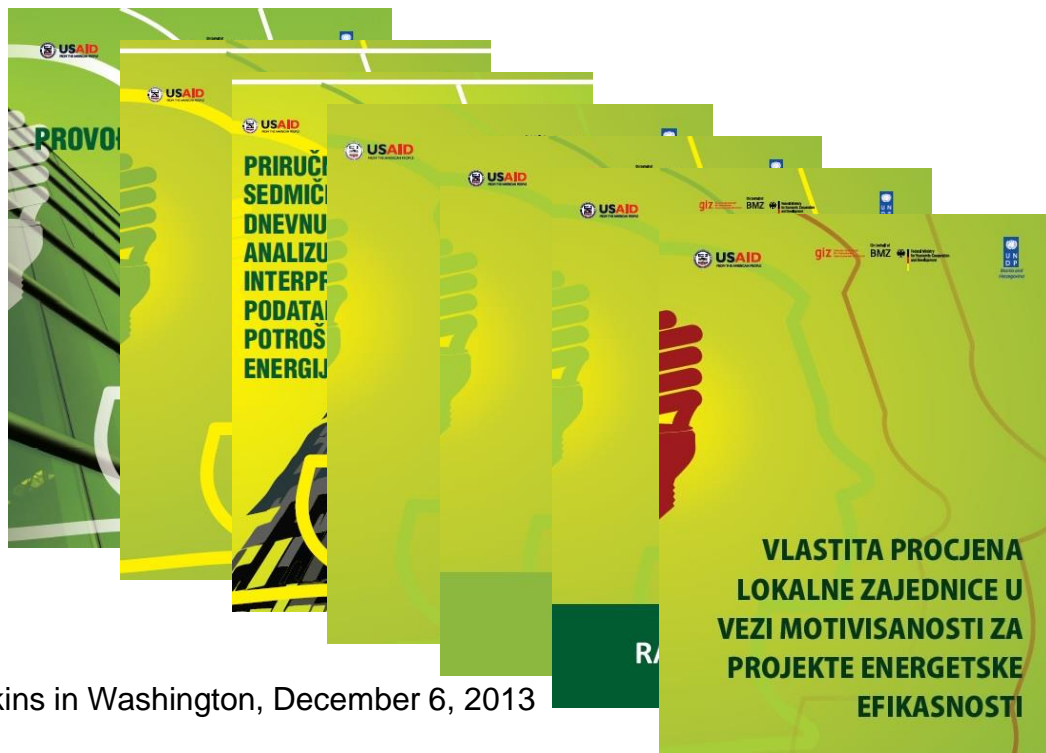


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Energy Efficiency Library

- **7** booklets on different energy efficiency topics
- Jointly published by USAID 3E, UNDP and GIZ
- Created for interested citizens and EE professionals
- Presented at all **9** American Corners in BiH



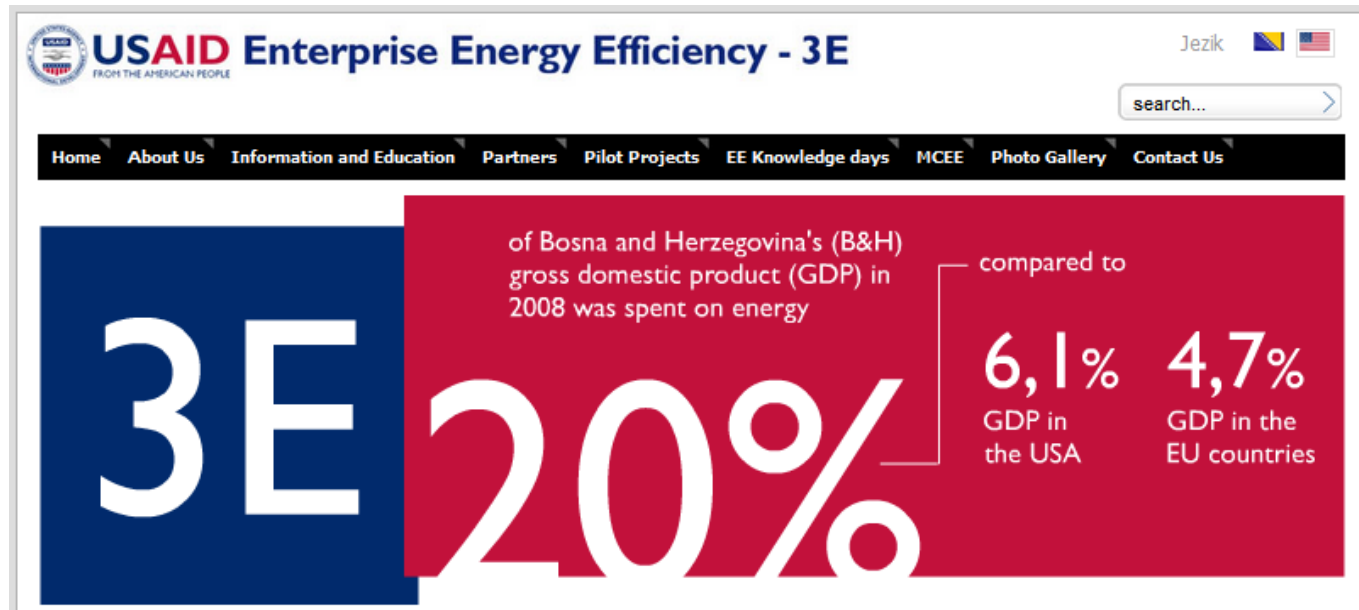


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USAID 3E Website

- The 3E website was activated in October 2010
- **More than 57,000 hits to date**



www.eee.ba



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Public Awareness – Sarajevo Energy Efficiency Festival

UKLJUČI SE!

FESTIVAL ENERGETSKE EFIKASNOSTI
5. – 10. JUNI, 2012. GODINE.
www.eee.ba



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Canton Tuzla Energy Efficiency Year

- **Systematic energy management approach**
- **Focus on one test region in BiH**
- **Goal is to showcase the **transformational** impact EE can provide**

"Energy management is a process of continuous energy consumption monitoring in order to detect and correct excessive energy consumption, all of which results in a decrease of the costs spent on energy."



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Canton Tuzla Energy Efficiency Year

- Signing of the Energy Charter by the **13 Municipality Mayors** and Tuzla Canton Prime Minister
- Technical Assistance for the Municipalities and Tuzla Canton
- Public Awareness Activities





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Lessons Learned

- **Laws and legislation on energy efficiency is still missing**
- **A systematic energy management approach is needed in all levels of government**
- **Citizens need to be educated and informed about the benefits of energy efficiency**
- **Transformation of the energy efficiency market**
- **Financing for energy efficiency projects**



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Thank you!

Mak Kamenica
mkamenica@eee.ba

USAID 3E project
Gajev trg 2/II, Sarajevo
Bosnia and Herzegovina
+387 33 268 370
www.eee.ba